

Summary of Monitoring and Control for the Mosquito Program for the Week ending August 19, 2016

West Nile Virus (WNV) in and Around Boulder County

Mosquito activity increased this week, and while the percentage of *Culex* decreased, it is still elevated compared to previous years. In the rest of Boulder County, mosquito activity is above average, as well as the population of *Culex* mosquitoes. Mosquito samples from last week tested positive for WNV and the risk for human transmission is currently elevated. Longmont also had positive mosquito samples last week. Results are still pending from samples collected this week.

Two more human cases were confirmed in Boulder County. One was a 39-year-old Longmont woman and the other, a 31-year-old Lafayette man. All of the cases in Boulder County so far this year have been the less severe form of WNV, West Nile fever. So far in Colorado this year, 19 WNV cases have been reported and one death. Due to the presence of WNV in the region, public health officials strongly advise that personal protective measures are taken to avoid mosquito bites. Details are available at the [Fight the Bite website](#).

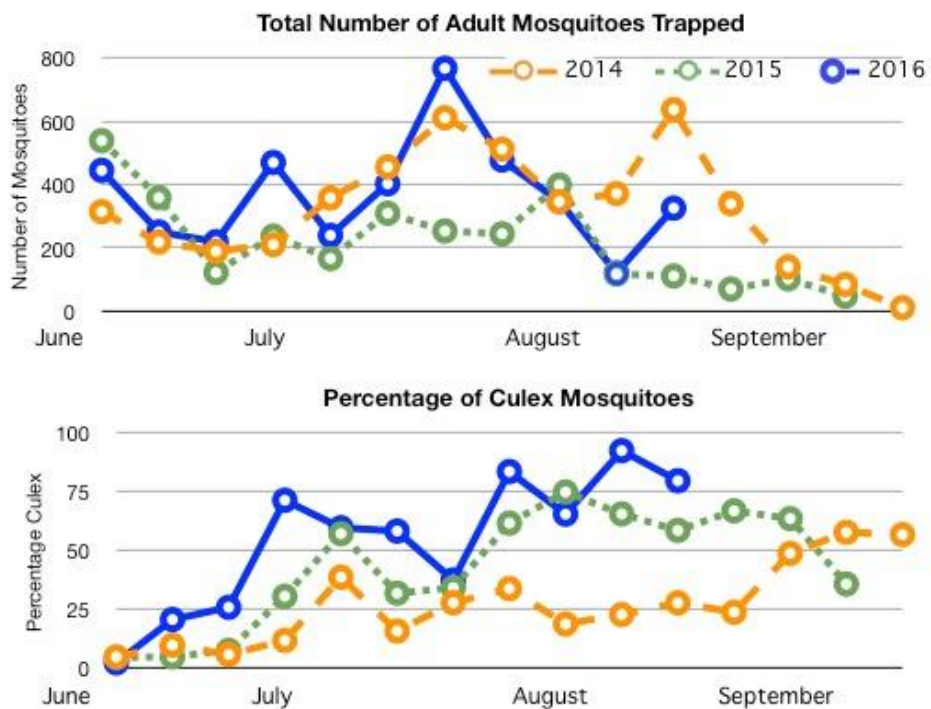
Adult Mosquito Trap Numbers

Adult mosquitoes are monitored from a grid of 16 traps located throughout the city. The mosquitoes are sorted and identified to species. *Culex* species from designated sentinel traps are sent to the Colorado Department of Public Health and Environment to be tested for the presence of WNV. The following table shows the results from surveillance traps.

Date	Total Mosquitoes	Number of <i>Culex</i> Mosquitoes	Percent <i>Culex</i> Mosquitoes	WNV Testing Results
June 7	477	12	2.5%	Not yet testing
June 14	253	53	29.9%	Negative
June 21	222	58	26.1%	Negative
June 28	472	338	71.6%	Negative
July 5	242	145	59.9%	Negative
July 12	405	237	58.5%	Negative
July 19	769	290	37.7%	Negative
July 26	480	424	88.3%	Positive
August 2	350	230	65.7%	Negative

August 9	124	115	92.7%	Positive
August 16	328	262	79.9%	Results pending

Weekly mosquito trap results will be charted throughout the season and the results from the previous two years will be included for comparison.



Nuisance Mosquito Program

Nuisance mosquito abundance and species composition can be compiled from 12 of the 16 WNV surveillance traps (four traps are specific for *Culex* mosquitoes), providing information about nuisance mosquito activity throughout the city. Two additional traps are placed in areas with high nuisance mosquito activity. These are located at the East Boulder Recreation Center and the Thorne Institute at the east side of Sombrero Marsh. “Floating” traps may also be set up to monitor areas of high mosquito activity. One is currently installed at the Greenbelt Meadows neighborhood.

The table below shows the adult nuisance mosquito counts in the three traps that are used for additional monitoring of nuisance mosquitoes, as well as the top five nuisance mosquito counts in WNV surveillance traps throughout the city.

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i>)
Greenbelt Meadows*	44 (23)
Rolling Rock	29 (22)
Stazio Ball Fields	17 (27)
Christiansen Park	10 (108)
South Boulder Recreation Center	4 (22)
23rd and Meadow	3 (10)
East Boulder Community Center*	2 (0)*
Thorne Institute*	1 (8)*

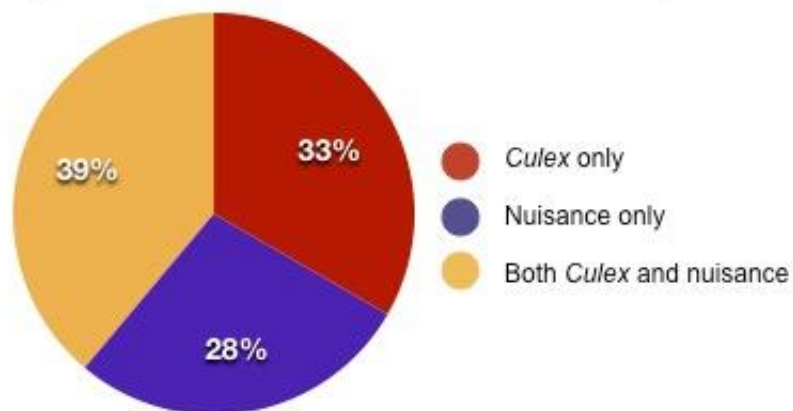
* Trap is from nuisance mosquito control program

Mosquito Larval Control Treatments

The week ending August 12, a total of 330 site inspections occurred and 18 were treated.

- Sites treated with *Culex*-only larvae: 6
- Sites treated with nuisance-only larvae: 5

Percentage of sites treated for *Culex* and nuisance mosquitoes



- Sites treated with both *Culex* with nuisance larvae: 7

If you have any questions, please contact Rella Abernathy at 303-441-1901.